

# R3265A/3271A SERIES QUICK GUIDE

Please  
Note

- For detailed information, see the Instruction Manual.
- indicate the panel keys, and ■ indicate the soft key menu.

Item	Operation procedure
Start	<p>Data setting: Enter using the step keys, data knob, or numeric keypad (unit key last) for data setting.</p> <p>↑ ↓ ○ Numeric keypad → GHz → +dBm → MHz → -dBm → kHz → mV or Hz → μs</p> <p>This entire description will not be repeated and will from now be referred to as [Data setting]. If you enter the numeric keypad incorrectly, press BK SP.</p>
Basic operation	<p>Initializing: <b>PRESET</b></p> <p>Frequency level setting: <b>CENTER FREQ</b> → [Data setting] / <b>FREQ SPAN</b> → [Data setting] / <b>REF LEVEL</b> → [Data setting] Sets the center frequency. Sets the frequency span. Sets the reference level.</p> <p>IF bandwidth and input ATT setting: <b>CPL</b> → <b>RBW</b> → [Data setting] / <b>CPL</b> → <b>ATT</b> → [Data setting]</p> <p>Two-signal comparison: <b>NORM</b> → <b>A</b> → <b>WRITE</b> → <b>VIEW</b> → <b>A</b> → <b>NORM</b> → <b>B</b> → <b>WRITE</b> → <b>VIEW</b> → <b>B</b></p> <p>Data storage: <b>SHIFT</b> → <b>SAVE</b> → <b>RECALL</b> → [Data setting] → <b>SAVE</b> → <b>EXECUTE</b> Specifies the channel in which data is stored.</p> <p>Data read: <b>SAVE</b> → <b>RECALL</b> → [Data setting] → <b>RECALL</b> → <b>EXECUTE</b> Specifies the channel.</p> <p>Start/stop frequency setting: <b>START</b> → [Data setting] / <b>STOP</b> → [Data setting] Sets the frequency. Sets the frequency.</p>
Level	<p>Amplitude scale dB/div setting: <b>REF LEVEL</b> → <b>dB</b> → [Data setting] Can be set to 0.1 to 10dB/div in a 1, 2, 5 sequence.</p>
Coupling	<p>Digital/analog IF selection: <b>CPL</b> → <b>IF</b> → 1, 2, or OFF in <b>DIGITAL/ANALOG</b> (1 : Set to digital IF when RBW is 10Hz, 30Hz, or 100Hz.) (2 : Set to digital IF when RBW is 10Hz or 30Hz.) (OFF : Set to the analog IF.) The analog IF mode is automatically set when the set span is 0Hz or 200kHz or more.</p>
Menu keys	<p>Sweep in measurement window: <b>NEW</b> → <b>SWEEP MODE</b> → <b>WINDOW</b> → <b>SWP</b> → <b>SHIFT</b> → <b>0</b> → X in <b>LOCATE</b> → ↑ ↓ ○ → Can shift the center position (X, Y) of the window. Determines the window size. Cancels the WINDOW SWP. X in <b>LOCATE</b> → ↑ ↓ ○ → <b>SHIFT</b> → <b>0</b> → <b>SWP</b> → <b>NORM/DO</b> → Can increase or decrease the X amplitude (ΔX) of the window. Enter <b>SHIFT</b> → <b>0</b> → <b>WDO</b> in <b>SWP</b> → <b>NORM/DO</b> : You can obtain the same sweep operation as that marked with *1.</p>

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Item	Operation procedure
Menu keys	<p>Audio monitor: <b>ON</b> → <b>Marker display</b> → <b>UP</b> → <b>DOWN</b> → <b>Numeric keypad</b> → <b>MENU</b> → <b>SOUND</b> → <b>MARKER PAUSE TIME</b> → [Data setting] Data setting. Zero-span setting: <b>FREQ SPAN</b> → <b>ZERO SPAN</b> → <b>MENU</b> → <b>SOUND</b> → <b>MARKER PAUSE TIME</b> → [Data setting] Sets the receive time when the span is set.</p> <p>Audio monitor OFF: <b>OFF</b> (or <b>MENU</b> → <b>SOUND</b> → <b>SOUND OFF</b>)</p> <p>Selection of voltage display (used as 75Ω input using an external 75Ω to 50Ω converter): <b>MENU</b> → <b>SET MENU</b> → 75 in <b>REF</b> → <b>50/75Ω</b></p> <p>Marker pause time setting: <b>ON</b> → [Data setting] → <b>MENU</b> → <b>SWEEP MODE</b> → <b>ON</b> in <b>MARKER PAUSE ON/OFF</b> → [Data setting] Specifies the marker point. Sets the pause time.</p> <p>Detector mode selection: <b>MENU</b> → <b>TRACE DET</b> → <b>POS/NEG</b> → (Enters the detection mode in which the positive/negative peak detection is automatically selected by a measurement waveform.) Select one from next menu. <b>POS</b> → (Enters the positive peak detection mode. Enters this mode automatically during maximum hold display.) <b>NEG</b> → (Enters the negative peak detection mode. Enters this mode automatically during minimum hold display.) <b>SAVING</b> → (Enters the sample detection mode. Enters this mode automatically in the averaging mode.)</p>
TRACE section	<p>Display line setting: <b>MENU</b> → <b>ON</b> in <b>DISPLAY ON/OFF</b> → [Data setting] Moves the display line.</p> <p>Averaging count setting (Averaging A): <b>NORM</b> → <b>A</b> → <b>VE</b> → [Data setting] Sets the number of averaging times.</p> <p>Alteration of memory contents: <b>NORM</b> → <b>A</b> → <b>VIEW</b> → <b>A</b> → <b>NORM</b> → <b>B</b> → <b>VIEW</b> → <b>B</b> → <b>TEXT MENU</b> → <b>WAVEFORM</b></p> <p>Data storage (trace A): <b>NORM</b> → <b>A</b> → <b>VIEW</b> → <b>A</b> → <b>SHIFT</b> → <b>SAVE</b> → <b>RECALL</b> → [Data setting] → <b>SAVE</b> → <b>EXECUTE</b> Specifies the channel.</p> <p>Unit key, Numeric keypad: <b>UNIT</b> → [Data setting] → <b>NUMERIC</b> → <b>RETURN</b> → <b>SAVE</b> → <b>EXECUTE</b> Moves the cursor. Selects the character. Enters the numerical value. Enters the title.</p> <p>Maximum/minimum hold display: <b>NORM</b> → <b>A</b> → <b>MAX HOLD</b> / <b>NORM</b> → <b>A</b> → <b>MIN HOLD</b></p>
MARKER section	<p>Selection of marker data display position: <b>MULTI MKR</b> → <b>ON</b> → <b>EXTEND</b> → <b>UP</b> or <b>LOW</b> in <b>DSP POS</b> → <b>UP</b> or <b>LOW</b></p> <p>Auto tuning (Searches for the peak value between full and optional spans): <b>MULTI MKR</b> → <b>ON</b> → <b>EXTEND</b> → <b>AUTO TUNE</b> → <b>Numeric keypad</b> → [Data setting] Sets the span width. Set the mode to analog IF when the span is 100Hz. (See item "Digital/Analog IF Selection".)</p> <p>Peak list display: <b>PEAK</b> → <b>EXTEND</b> → <b>ON</b> in <b>PEAK LIST ON/OFF</b> → (Up to eight peak signal data items are displayed on the screen.)</p>

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Item	Operation procedure
MARKER section	
Marker	<p>MULTI MKR ON → NORMAL MKR → [Data setting] → (The marker frequency and level are displayed.) Moves the marker.</p>
Delta marker	<p>MULTI MKR ON → Δ MKR → [Data setting] → (The frequency and level differences between the reference marker and active marker are displayed.) Moves the active marker.</p>
Peak delta marker	<p>PEAK → MULTI MKR ON → Δ MKR → [Data setting] → (The frequency and level differences from a peak signal are displayed.) Moves the active marker.</p>
Frequency counter function	<p>MULTI MKR ON → COUNTER → [Data setting] → (FREQ CNT : Displays the signal frequency.) (MKR CNT : Displays the frequency of a marker point.)</p> <p>Select one from next menu.</p>
Noise Hz measurement	<p>MULTI MKR ON → NOISE X Hz → [Data setting] → (The noise level measurement result or the ordinary marker display can be selected when a display line is displayed during noise level measurement.)</p> <p>The active marker position is lower than the display line : Displays the noise level measurement data. The active marker position is higher than the display line : Displays the ordinary marker level.</p>
Signal track (Holds a signal in the center of the screen.)	<p>MULTI MKR ON → [Data setting] → ON in SIG TRK ON/OFF → Adjusts a marker to the signal in which you wish to track a signal.</p>
X-dB down setting	<p>PEAK → MULTI MKR ON → X dB DOWN → [Data setting] → X dB DOWN → Sets the X-dB value. (The initial value is 3dB.)</p>
Multi-marker	<p>SHIFT → MULTI MKR ON → MKR NG → ON in MKR 2 ON/OFF → Moves the marker point. [Data setting] → ON in MKR LIST ON/OFF → Moves the marker point.</p> <p>Eight markers can be set when this operation is repeated eight times. Numeric character "2" in *2 changes to 3, 4, 5, 6, 7, then 7 every time *1 is pressed.</p> <p>→ (The frequencies and levels of all the markers during display are displayed on the list in realtime.)</p>
User define	<p>SHIFT → DEFINE USER → DEFINE USER → GROUP ACTIVE → [Data setting] → MEMBER ACTIVE → Panel key *1 → Moves arrow key → to the menu you wish to alter or add. [Data setting] → MEMBER ACTIVE → Panel key *2 → Selects the menu you wish to set by one of the arrows keys.</p> <p>Moves arrow key → to the menu you wish to alter.</p> <p>*1 : The CENTER FREQ group can be set immediately after the panel key (e.g., CENTER FREQ) is pressed. *2 : The step key displays the function group in scroll every time it is pressed.</p>

First printing December 1, 1993 / Printed in Japan / OEA00 9903 A

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User define function	<p>SHIFT → DEFINE USER → GROUP ACTIVE → Panel key *1 → Moves arrow key → to the menu you wish to alter by one of the arrow keys. [Data setting] → MEMBER ACTIVE → Panel key *2 → Displays the function group you wish to alter by one of the arrow keys.</p> <p>*1 : The CENTER FREQ group can be set immediately after the panel key (e.g., CENTER FREQ) is pressed. *2 : The step key displays the function group in scroll every time it is pressed.</p>
User define menu initializing	<p>SHIFT → DEFINE USER → INITIAL RESUME → (The soft group on the display screen enters the initial menu.) Select one from next menu. → ALL INITIAL → (All the soft groups enter the initial menu.)</p>
Plot output function	<p>Items to be set. Plotter used : R9833 ● Number of pens : 2 pens Plotter mode : All ● Split size of screen : 4 pictures Paper size : A4 ● Output screen during plotter split : Up right</p> <p>SHIFT → PLOT 8 → (Menu → R9833 in PLOT TYPE → All in PLOT MODE → PLOT ROOM → A4 in PAPER SIZE → 2pens in PEN → 4pictures in PLOT DIVISION → Up right in LOCATION → RETURN → PLOT EXECUTE)</p> <p>*1 : Arrow key → in the menu moves every time this key is pressed.</p>
QC mode measurement (EMC)	<p>SHIFT → EMC 1 → QCP</p>
Limit line setting	<p>SHIFT → EMC 1 → DOWN LINE → LIMIT LINE → (Data table is displayed.) Numeric keypad → Numeric keypad → RETURN → LIMIT LINE 2 → (Data table is displayed.)</p> <p>Sets the input position of an upper-limit value. Enters the frequency of an upper-limit value. Enters the level of an upper-limit value.</p> <p>Sets the input position of a lower-limit value. Enters the frequency of a lower-limit value. Enters the level of a lower-limit value.</p> <p>*1 : The first operation is not required.</p>
Occupied bandwidth measurement	<p>SHIFT → UTIL 3 → OBW → Numeric keypad → Data entry. → OBW → (OBW : Displays the occupied bandwidth.) (Fc : Displays the center frequency of the occupied bandwidth.) (The ratio of all the electric powers can be specified to 10.0 to 99.8%.)</p>
Leakage power measurement in adjacent channels	<p>SHIFT → UTIL 3 → PEAK → CH SP in ADJ SETUP → Numeric keypad → BS in ADJ SETUP → Data entry. → ADJ POINT → (Displays the leakage power in upper and lower channels.) Select one next menu. → ADJ GRAPH → (Displays the calculation result in a graph.)</p>

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